NEO-22
Multi Format Karaoke Player
with Ripping & Recoding Function

USER'S MANUAL

Safety Warnings

CLASS 1 LASER PRODUCT
KLASSE 1 LASER PRODUKT
LUOKAN 1 LASER LAITE
KLASS 1 LASER APRARAT
PRODUCTO LASER CLASE1

CLASS 1 LASER PRODUCT

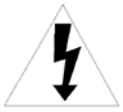
This player is classified as a CLASS 1 LASER product.

Use of controls, adjustments or performance of procedures other than those specified herein may result in hazardous radiation exposure.

CAUTION

RISK OF ELECTRIC SHOCK.
DO NOT OPEN

CAUTION:
TO REDUCE THE RISK OF ELECTRIC SHOCK, DO NOT REMOVE REAR COVER.
NO USER SERVICEABLE PARTS INSIDE.
REFER SERVICING TO QUALIFIED SERVICE PERSONNEL



Thi symbol indicates that dangerous voltage which can cause electric shock is present inside this unit.

This symbol alerts you to important operating and maintenance instructions accompanying the unit.

WARNING: To reduce the risk of fire or electric shock, do not expose this appliance to rain or moisture.

Precautions

Ensure that the AC power supply in your house complies with the identification sticker located on the back of your player. Install your player horizontally, on a suitable base(furniture), with enough space around it for ventilation(7.5~10cm). Make sure the ventilation slots are not covered. Do not stack anything on top of the player. Do not place the player on amplifiers or other equipment which may become hot. Before moving the player, ensure the disc tray is empty. This player is designed for continuous use. Switching off the Player to the stand-by mode does not disconnect the electrical supply. In order to disconnect the player completely from the power supply, remove the main plug from the wall outlet, especially when left unused for a long period of time.

During thunderstorms, disconnect AC main plug from the wall outlet.
Voltage peaks due to lighting could damage the unit.

Do not expose the unit to direct sunlight or other heat sources.
This could lead to overheating and malfunction of the unit.

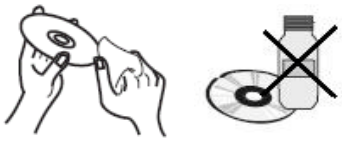
Protect the player from moisture(e.g. vases), and excess heat(e.g. fire place) or equipment creating strong magnetic or electric fields(e.g. speakers…). Disconnect the power cable from the AC supply if the player malfunctions. Your player is not intended for industrial use.
Use of this product is for personal use only.
Condensation may occur if your player or disc have been stored in cold temperatures.
If transporting the player during the winter, wait approximately 2 hours until the unit has reached room temperature before using.

The battery used with this product contain chemicals that are harmful to the environment.
Do not dispose of batteries in the general household trash.

Handling discs
Do not touch the playback side of the disc.
Hold the disc the edges so that fingerprints will not get on the surface.
Do not stick paper or tape on the disc.
Do not fall or impact the disc

Storing discs
After playing, store the disc in its case.
Do not expose the disc to direct sunlight or sources of heat, or leave it in a parked car exposed to direct sunlight, as there may be a considerable temperature increase inside the car.

Cleaning discs
Fingerprints and dust on the disc can cause poor picture quality and sound distortion.
Before playing, clean the disc with a clean cloth. Wipe the disc from the center out.
Do not use strong solvents such as alcohol, benzene, thinner, commercially available cleaners, or anti-static spray intended for older vinyl records.



Handling the Unit
When setting up the unit, the picture and sound of a nearby TV, VCR, or radio may be distorted during playback. In this case, position the unit away from the TV, VCR, or radio, or turn off the unit after removing the disc.

Cleaning the unit
To clean the cabinet, use a soft, dry cloth. If the surfaces are extremely dirty, use a soft cloth lightly moistened with a mild detergent solution. Do not use strong solvents such as alcohol, benzien, or thinner, as these might damage the surface of the unit.

Before Use

Playable Media

DVD, SVCD, VCD, HDCD, Audio CD, DVD+/-R, DVD+/-RW, SVCD and CD-R/RW that contains Audio titles, NEO+G, MP3+G, CD+G, MP3, WMA, JPEG, MPEG4 or DivX files.

Regional code

This unit plays the DVD discs labeled “All”

Remote Control Operation Range

Point the remote control at the remote sensor and press the buttons
Distance: about 23ft(7m) from the front of the remote sensor

Angle: About 30° in each direction of the front of the remote sensor

Remote control battery installation

Detach the battery cover on the rear of the remote control and insert two AAA size batteries with + and – aligned correctly.
*Do not expose batteries to heat or flame

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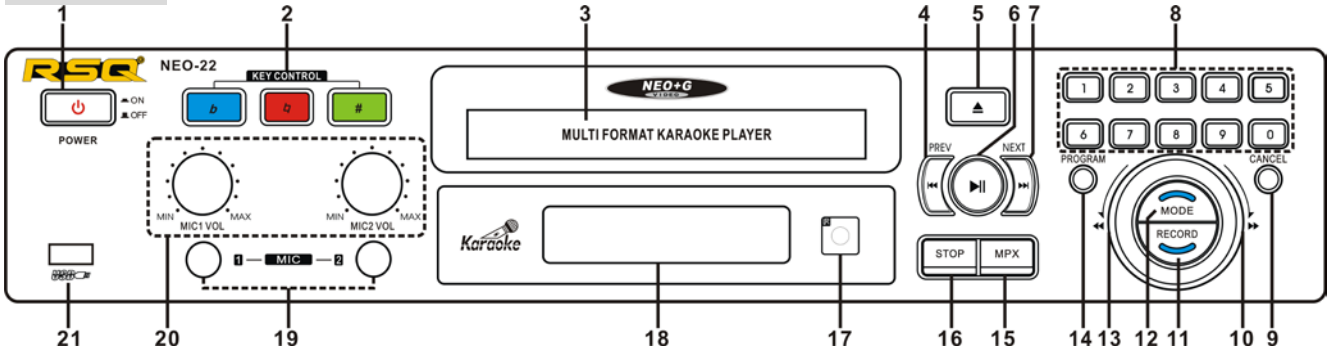
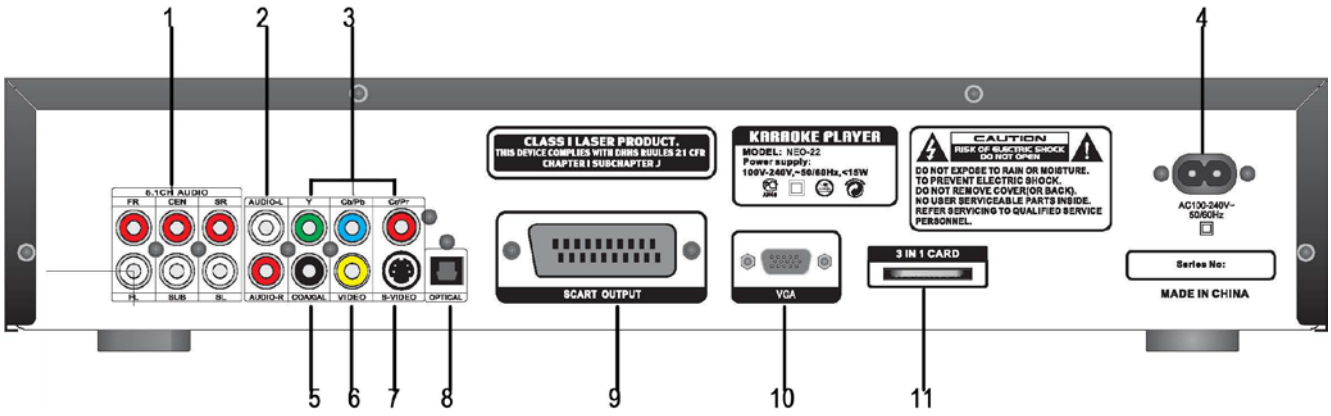
Description

Front Panel



1. POWER
2. KEY CONTROLLER
3. LOADER TRAY
4. PREVIOUS
5. OPEN/CLOSE
6. PLAY/PAUSE
7. NEXT
8. NUMERIC(0~9)
9. CANCEL
10. FAST FORWARD
11. RECORD
12. MODE(DISC/USB/SD)
13. FAST REVERSE
14. PROGRAM
15. MULTIPLEX
16. STOP
17. IR RECEIVER
18. LED DISPLAY
19. MICROPHONE INPUT 1/2
20. MICROPHONE VOLUME 1/2
21. USB HOST(V.2.0)

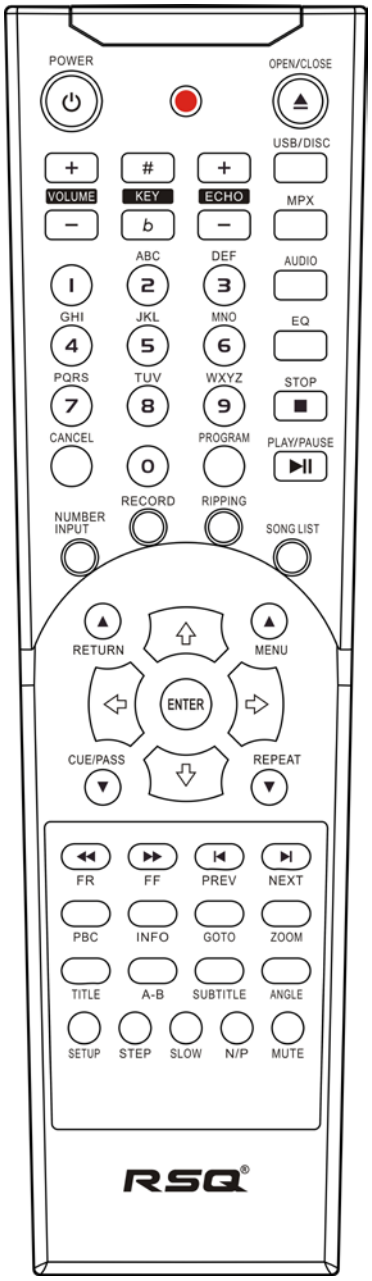
Rear Panel



1. ANALOG AUDIO 5.1CH OUT
2. KARAOKE AUDIO 2CH OUT
3. COMPONENT VIDEO OUT (Y,Pb,Pr)
4. AC POWER CORD
5. COAXIAL (DIGITL AUDIO OUT)
6. COMPOSITE VIDEO OUT
7. S-VIDEO OUT
8. OPTICAL (DIGITAL AUDIO OUT)
9. S-CART OUT
10. VGA OUT
11. 3-IN-1 CARD READER(SD/MS/MMC)

Description

Remote Control



NO	BASIC	KARAOKE
1	POWER	
2	OPEN/CLOSE	
3	VOL -/+	-Music Volume -/+ Control
4	Key b/# Control	-Key b/# Control
5	ECHO -/+	-Echo -/+ Control
6	USB/DVD	-Drive Change between Disc, USB and SD
7	MPX(Multiplex)=L/R/ST	-Vocal ON/OFF/Auto for DAT and Vocal Song with 2CH
8	AUDIO	-Vocal ON/OFF/Auto for VOB file with 2 audio
9	EQ	-EQ Control
10	PLAY/PAUSE	
11	STOP	-Stop Playback
12	NUMBERS(0~9)	-Numbers & Initial Letter Input(E.g, I Love You=>ILY)
13	CANCEL	-Cancel of the Wrong Digit Input
14	PROGRAM	
15	SONG LIST	-Open/Close of the Neo+G Song List on the Screen
16	NUMBER INPUT	-Input the Neo+G song's number directly
17	RECORD	-Record singing sound with Neo+G &CD+G musics
18	RIPPING	-Rip the Neo+G & CD+G disc to USB at MP3+G format
19	ARROW(◀▶)	-Song List Page UP/DOWN
20	ARROW(▲▼)	-Song List Line UP/DOWN
21	ENTER=PLAY	-Play Songs (=PLAY)
22	RETURN	
23	MENU	-Creating of MP3+G Song List into USB at TXT format.
24	CUE/PASS(only for DVD)	-Jump to the beginning of DVD Video
25	REPEAT	-Repeat One/All/Off
26	FAST REVERSE(⏪)	
27	FAST FORWARD(⏩)	
28	PREVIOUS(⏮)	-Skip to the Previous Song
29	NEXT(⏭)	-Skip to the Next Song
30	PBC	
31	INFO	
32	GOTO	
33	ZOOM	
34	TITLE	
35	A-B	
36	SUBTITLE	
37	ANGLE	
38	SETUP	
39	STEP	
40	SLOW	
41	N/P	
42	MUTE	

Connections

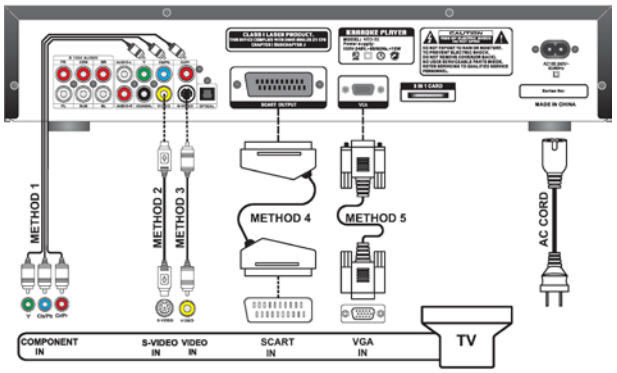
Connecting to the Power Supply

Plug the main lead (marked AC Cord on the rear of the player) into an appropriate socket
Press the Power button to switch your Player on.
The present product can be used under the AC 100~240V~. 50/60Hz

<NOTE>

- Before plugging your player into a main socket, you must check the voltage.

Connecting the Video Out to TV



METHOD 1, COMPONENT(Progressive Scan)
Connect a component video cable from the Pr, Pb and Y jacks on the back panel of the player to the corresponding jacks on your television.
This outputs monochrome(Y), Blue(Pb) and Red(Pr) separately and produces the best quality image of **1080P**.

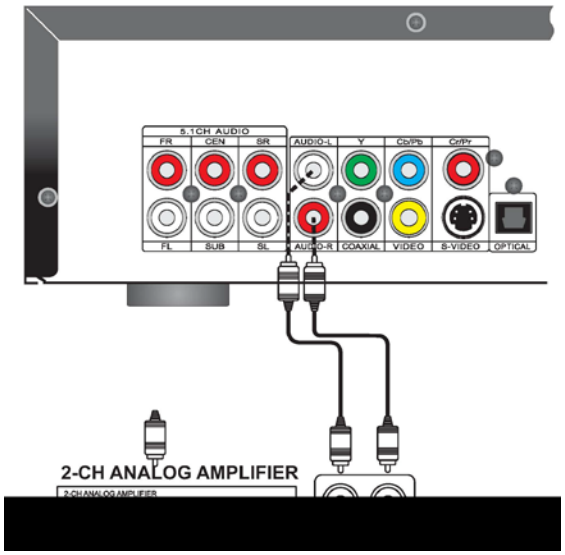
METHOD 2, COMPOSITE VIDEO
Connect the supplied video cable from the VIDEO OUT jack on the player to the VIDEO IN jack on your TV.

METHOD 3, S-VIDEO
Connect the S-Video out jack on the back panel of the player to the S-VIDEO in jack on the TV using the S-Video cable

METHOD 4, S-CART
Connect the S-CART out jack on the back panel of the player to the S-CART in jack on the TV using the S-CART Cable(not provide)

METHOD 5, VGA
Connect the VGA out jack on the back panel of the player to the VGA in jack on the Monitor using VGA Cable.

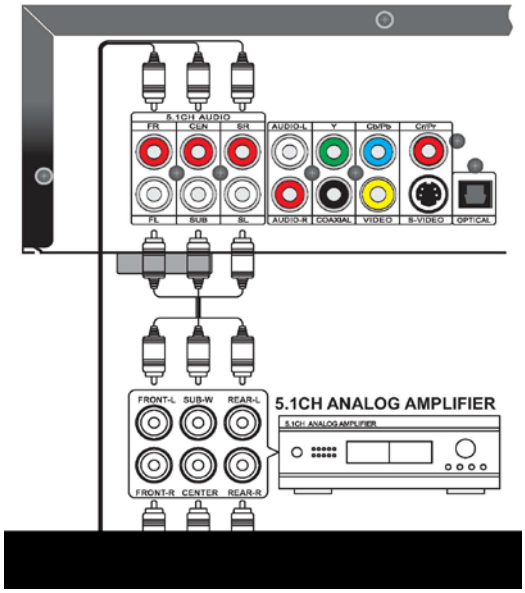
Connecting the Audio Out to Amplifier



Connection to a 2CH amplifier

✓ **2CH Analog Karaoke Audio Output**
Please connect RCA CABLE from AUDIO L/R terminals on the rear of the player to the AUDIO IN (RED and WHITE) terminals of the Amplifier.

Connections

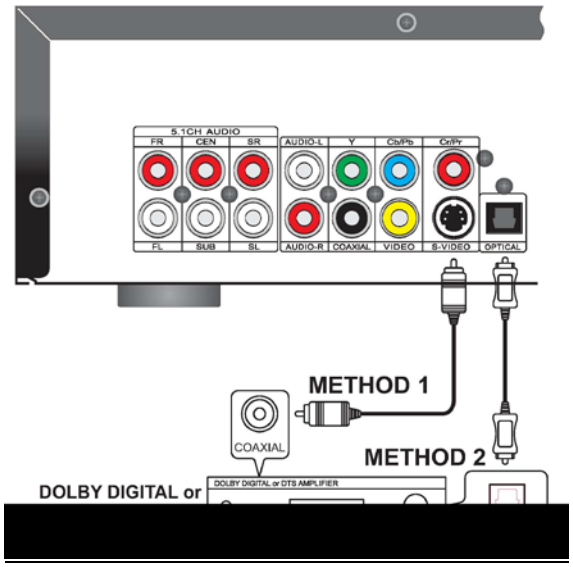


Connection to 5.1CH amplifier

- ✓ **5.1CH Analog Audio Output**
  Please connect the RCA CABLES from 5.1CH ANALOG AUDIO OUT terminals on the rear of the player to the 5.1CH ANALOG AUDIO IN terminals of the 5.1CH Analog Amplifier.

- ✓ In order to get the 5.1CH analog audio output, the player must be set as follows;

  ***SPEAKER SETUP:**
  DOWN MIX----→5.1CH



Connection to an amplifier with Digital Audio Connection

- ✓ You can get the **DIGITAL KARAOKE SOUND & MIC SOUND OUTPUT** via OPTICAL/ COAXIAL jack.
- ✓ Please connect an OPTICAL/ COAXIAL cable from OPTICAL/COAXIAL audio out terminal on the rear of the player to the DIGITAL AUDIO IN (OPTICAL/ COAXIAL) terminal of the Amplifier.

  ***Dolby Pro Logic**: Using 5.1CH speakers, it recreates the original sound of the music or audio and provides the sense of presence, as if you were in a movie theater or concert hall.

< NOTE >

- ➢ The type of audio output from the connector can be selected by the Audio setting.
- ➢ Please turn the volume down when you turn on the Amplifier. Sudden loud sound may cause damage to the speakers and your ears.

Connecting with Microphones

When you connect the Microphone to the Player directly

- ➢ Connect the Microphone to the MIC JACK on the front of the player
- ➢ Adjust the Microphone Volume Level with MIC VOL on the player.

<NOTE> To avoid feedback noise, do not place your hands near the top of the microphone and do not point the microphone directly at the output speaker. If feedback occurs, lower the volume control.
When you connect the Microphone to the Amplifier, you would not get the scoring after singing.

Connections

Connecting with SD Card or USB devices

You can play MP3+G, MP4, AVI, DAT, VOB, MP3, WMA and JPEG files from SD/USB.

- ✓ Connect the SD CARD or USB device to each slot on the player.
- ✓ If any Disc is not in the Disc tray, the player will read the SD CARD or USB directly.
- ✓ If any Disc is in the Disc tray, press "**USB/DISC**" key at stop mode to select SD CARD or USB mode.
- ✓ Use the arrow buttons to select the file and press "**ENTER** or **PLAY**" key to start playback.

Supported file format from SD/USB:	NEO+G, MP3+G, MPEG1(*.MPG, *.DAT), MPEG4(*.MP4), DivX(*.AVI), XviD(*.AVI), MP3, JPEG(*.JPG)
Supported system:	**FAT16/32 files system only** **※NTFS file system is not supported.**
Supported devices:	➢ **USB memory:** USB2.0 or USB 1.1 ➢ **3-in-1 Card:** SD/SDHC(**up to 32GB**), MMC and MINI SD Card ➢ **MP3 Player**: IPOD and flash type MP3 Player. ➢ **USB HDD**: Up to **2TB HDD** ※For the USB HDD, make sure to connect an auxiliary power cord to the USB HDD for proper operation and you must turn on the power of USB HDD before connecting to the player and must pull out the USB HDD from the player before turning the power of the player off.

< NOTE >

- ➢ Some High Resolution Video files cannot be played properly from USB because of the USB Host(v.2.0) speed of the player.
- ➢ Some MP3 players may not operate depending on the sector size of their file system.
- ➢ The player may not fully support parts of memory card.
- ➢ Do not insert or pull out the memory card from the player during playback.
- ➢ If use a USB extension cable, the USB device might not be recognized.

Basic Operation

Basic Operation

OPEN/CLOSE:	Press OPEN/CLOSE to open and close the disc tray.
PLAY/PAUSE:	Press **PLAY** once to play the file/track desired and press **PAUSE** again to pause the playback. To return to normal playback, press **PLAY/PAUSE** again.
STOP:	Press **STOP** key to end playback. On DVD/VCD, you can resume playback by pressing the PLAY key. Press the STOP key twice to stop playback completely.
VOLUME(+/-):	Press 'VOL +' to raise the sound volume. Press 'VOL -' to lower the sound volume.
NUMERIC(0~9):	Press Numeric button to select a File/Track number to play. E.g.) File Number is 1234, Press 1-2-3-4 in order and press PLAY or ENTER to start playback.
CANCEL:	Press Cancel button to clear the wrong number input.
PROGRAM (MP3/VCD/ MPEG4):	✓ Press "PROGRAM" key at stop mode and input the desired Chapter/Track/File Number and press "PLAY" to start playing in programmed order. ✓ In case of VCD, it works at PBC off mode. In case of MP3, it works in one folder only. E.g.) If want to program Chapter/Track/File No. 5. 3, 6 in order, press "RESERVE + 5, +3, +6 and PLAY". ✓ To terminate the program playback, press "RESERVE" Button in STOP mode and click "CLEAR" Icon on the TV Screen. Or OPEN and CLOSE the disc tray.
USB/DISC:	**Device Change between DISC and CARD or USB** This function works only when the USB or SD Card was connected to the Player. Press **"USB/DISC"** key to switch between DISC MODE and CARD or USB mode at stop mode. <NOTE> In case, both SD Card and USB was connected to the player. The Player won't work at the same time. In case, no disc is being played, the device mode will automatically switch to USB device and play the first track on the device.
MPX (MULTIPLEX =L/R/ST):	**Vocal On/Off/Auto** This is used to select the left and right tracks of VCD/ MP3/CD discs which have a multiplex demonstration vocal track. ✓ **LEFT VOCAL(Vocal Auto):** When Vocals are on the Left and Music is on the Right, when singing with Mic., the Left Vocal will be canceled automatically. When singing with Mic. Stop, The Left Vocal comes up again automatically. ✓ **RIGHT VOCAL(Vocal Auto):** In case of Music on Left and Vocal on Right, when sing with Mic., the Right Vocal will be canceled automatically. When stop singing with Mic., the Right Vocal comes up again automatically. ✓ **MONO LEFT(Vocal Off):** Playing of Left Channel Sound only ✓ **MONO RIGHT(Vocal Off):** Playing of Right Channel Sound only ✓ **STEREO (Vocal On):** Stereo playback of Demo Vocals and music.
PREV/NEXT (⏮ / ⏭) :	**Skip to another Chapter/ Track** Press either **NEXT** or **PREV** button to skip the song, track or file forward or reverse.
FR/FF (◀◀ / ▶▶):	**Fast Search(MPEG4/ DVD/ VCD/ CD/ MP3 only)** At each time you press the button, you can modify the speed as follows; ✓ **FR(Fast Reverse)** : 2X, 4X, 8X, 20X, Normal Play. ✓ **FF(Fast Forward)**: 2X, 4X, 8X, 20X, Normal Play.
ARROW (▲▼◀▶):	Press ARROW keys to navigate the File/Folder
ENTER:	Press ENTER key to confirm the desired menu.
AUDIO (DVD/MPEG4):	Press AUDIO key to select different audio channel or languages of DVD disc or AVI files.
EQ (Equalizer):	You can enjoy diverse genres of music with the Equalizer. ✓ Select a desired genre by pressing EQ button from following EQ modes. ✓ "CLASSIC/ ROCK/ JAZZ/ POP/ USER/ STANDARD" ✓ If you selected USER mode, you can adjust the elements by pressing arrow buttons.

Basic Operation

RETURN:	Press **RETURN** button to return to previous level of the Menu.
MENU (DVD/MPEG4):	Press **MENU** key to the disc menu mode on the screen. Press **ARROW** buttons or **NUMERIC** buttons (0~9) to select a play option and press ENTER button to confirm.
CUE/PASS(DVD):	Press CUE/PASS key to jump to the beginning of the Video.
REPEAT (DVD/ VCD/ CD/ MP3/MPEG4):	You can play a chapter, track, title or entire disc repeatedly. Press **REPEAT** continuously to choose a Repeat mode during playback. ✓ **DVD: "**CHAPTER /TITLE / REP-ALL/ OFF" ✓ **VCD, CD: "**REP-1/ REP-ALL/ OFF" (*You can activate repeat function at PBC OFF mode.) ✓ **MP3/MPEG4:** "REP-1/ REP-DIR/ REP-ALL/ OFF"
PBC:	**Playback Control for VCD 2.0 only** If your CD case is marked as VCD2.0 or PBC, you can select desired information or image in the MENU on the screen. You may have different initial image according to the contents included in the Disc. ✓ **PBC ON**: When inserting a disc, a menu (if available) may be displayed before playback. Using the Numeric Keys (0-9), enter the desired track number and press ENTER to being playback. ✓ **PBC OFF**: Select PBC OFF to skip the Disc menu and play directly from the beginning
INFO :	You can display the playback time and disc information on the screen. Press **"INFO"** repeatedly to change the display mode including singles time C, title time T, countdown and cancel.
GOTO:	**Time Search (DVD/ MPEG4/ VCD)** The Time Search function allows you to start playback at any chosen time on the disc. Press **GOTO** key and use **ARROW** keys to select chapter or input the chapter or time by the **Numeric Keys (0-9)** and press **ENTER** key to play. (*CD+G GOTO function is not supported)
ZOOM(MPEG4/ DVD/VCD/JPEG):	You can aggrandize the image during the playback or pause mode by pressing the "ZOOM" button repeatedly. ("2X → 3X → 4X → 1/2→1/3→1/4→OFF")
TITLE (VCD/DVD):	Press **"TITLE"** key to enter the TITLE mode of Disc.
A-B (DVD/MPEG4/ VCD/ CD):	✓ Press **A-B** once at point (A) where you wish to begin the repeat. ✓ Press **A-B** again at point (B) where you wish to end the repeat. Then the player will repeat playback between A and B. ✓ Press **A-B** key at third time to turn off A-B repeat mode. When press **STOP** during playback, A-B repeat is canceled.
SUBTITLE (DVD/ MPEG4):	Press **SUBTITLE** repeatedly to select different subtitle languages. Depending on the Disc, you can have different language options for subtitle.
ANGLE(DVD):	Press **ANGLE** to enjoy multi angle viewing when your DVD disc is recorded with multi angle. The current angle appears on the Screen.
SLOW:	Press **SLOW** repeatedly to play slow forward/ reverse motion.
STEP:	Press **STEP** to play
N/P(TV Type):	Press **N/P** button to switch the Video Signal Output of the Player (NTSC/ PAL/ PAL60/AUTO)
MUTE :	Press **MUTE** repeatedly to disable and enable the sound output.
SETUP:	Press **SETUP** button to enter or close the setup mode.

Special Operation

Special MPEG4 Operation

<table>
<tr><td>SUPPORTED
VIDEO FORMATS:</td><td>DivX3.11, 4.x, 5.x, XviD, DivX Pro(Excluding QPEL and GMC)
<NOTE>
✓ Bit rate may fluctuate; Device may skip encoding the high bit rate portions and begin decoding again when Bit rate returns to normal. Maximum bit rate: 4Mbps.720*480 @30fps, 720*576 @25fps
✓ Aspect Ratio: Although default DivX resolution is 640*480 pixels (4:3), this product supports 720*480 pixels. Video resolution higher than 800 pixels will not be supported.</td></tr>
<tr><td>SUPPORTED
AUDIO FORAMTS:</td><td><table><tr><td>Format</td><td>MP3</td><td>WMA</td><td>AC3</td><td>DTS</td></tr><tr><td>Bit Rate</td><td>80~348kbps</td><td>56~192kbps</td><td>128~348kbps</td><td>1.5Mbps</td></tr><tr><td>Sampling Frequency</td><td>44.1khz</td><td>44.1khz</td><td>44.1/48khz</td><td>44.1khz</td></tr></table>✓ DivX files, including audio and video files, created in the DTS format can only support up to 6Mbps.
✓ When you play a disc whose sampling frequency is higher than 48khz or 320kbps, you may experience shaking on the screen during playback.</td></tr>
<tr><td>SUPPORTED
SUBTITLE:</td><td>Smi, Srt, Sub, TXT with English</td></tr>
<tr><td colspan="2">< NOTE ! >
➢ It is normal to experience an occasional pixilation during MPEG4 playback due to clarity of digital contents during internet downloading.
➢ Some MPEG4 files created on a personal computer may not be played back. That is why Codec Type, Version and Higher resolution over the above specification is not supported.
➢ This unit supports CD-R/RW written in MPEG4 in accordance with the “ISO9660 format”</td></tr>
</table>

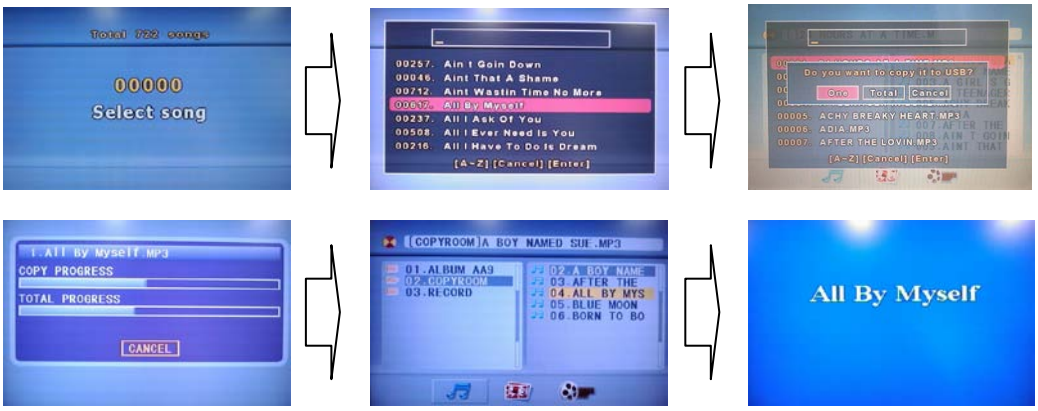
Special JPEG Operation

DIGEST FUNCTIONS (JPEG)	This function shows the content of the current folder or the whole disc. ✓ Press **PBC** at stop mode, A thumbnail of **6 pictures** appears on the TV screen. ✓ Press **ARROW** keys to highlight one of the pictures and press **ENTER** to start playback. ✓ Press **STOP** key during the playback of Picture to return to the File menu.
PLAYBACK WITH MULTI-ANGLE (JPEG)	During playback, press Arrow(◄► ▲ ▼) buttons to rotate the picture on the TV screen. ✓ ◄: rotate the picture anti-clockwise ✓ ►: rotate the picture clockwise ✓ ▲: flip the picture vertically ✓ ▼: flip the picture horizontally

NEO+G Karaoke Operation

PLAYING NEO+G DISC:	✓ Insert a **Karaoke Disc(NEO+G/MP3+G)** into the Tray of the player. ✓ Select a desired song with "**SONG NUMBER INPUT"** or with "**SONG LIST WINDOW**" ✓ Press **PLAY/PAUSE** or **ENTER** button to start play. ✓ To stop playing Karaoke Music, press **STOP** button.
MICTROPHONE SETTING:	✓ Connect the microphone to the MICROPHON INPUT JACK on the front panel. ✓ Turn the MIC VOL 1 &2 to adjust the voice volume of the Micro phone.
MIC VOLUME:	You can adjust the microphone volume level with **"MIC VOL 1&2"** knobs.
ECHO (+/-):	You can adjust the echo level of voices with **"ECHO +/- "** keys on the Remote Control.
VOLUME (+/-):	You can adjust the audio volume level with **"VOLUME(+/-)** buttons on the remote control.
SONG SEARCH	**WITH NEO+G SONG'S NUMBER:** ✓ Insert the NEO+G Karaoke Disc or USB/SD into the player. ✓ Input desired Song's Number with the **NUMERIC(0-9)** keys on the remote control. ✓ Press **ENTER or PLAY** key to start play ✓ To stop playing Music, press **STOP** key. ✓ To delete wrong number input, press **CANCEL** key.
	WITH SONG LIST ON THE SCREEN. At the "Select Song" mode, press "**SONG LIST**" key to display all **SONG LIST** in the disc on the Screen. ① Input **ALPHABET** of Song's Title with **NUMERIC(2-9)** keys on the remote. ② After select a desired song and press **PLAY** or **ENTER** key to start play. ③ To stop playing music, press **STOP** key. Eg) Search "**All By Myself**" , "**ALL BY MYSELF**" as follows;
NUMERIC(0~9):	✓ You can use to input a desired **SONG NUMBER on the Select Song mode**. ✓ You can use to input **ALPHABET of the Song Title on the SONG LIST.**
CANCEL:	You can remove the Wrong Number input.
KEY +/- :	Press **'KEY +/ -'** to modify the KEY of the music to match your vocal.
EQ(Equalizer):	Press **"EQ"** button repeatedly to select EQ mode from "CLASSIC/ ROCK/ JAZZ/ POP/ USER/ STANDARD".
MPX (MULTIPLEX)	You can cancel the Vocal sound in Left or Right Channel of Music.
AUDIO	You can **cancel the Vocal sound in Dual Audio of VOB or AVI files.**
REPEAT:	Press **REPEAT** to change the repeat mode of reserved song by ALL, ONE, RANDOM and OFF. ✓ ONE: Repeat the current played song until press stop button. ✓ ALL: Repeat all songs continuously until press stop button. ✓ OFF: Repeat Off

NEO+G Karaoke Operation

RECORDING OF SINGING: (NEO+G, MP3+G)	You can record your singing sound & graphics with **Neo+G & MP3+G songs** into USB/SD at **MP3+G format.** ① Please connect a **USB/SD Card** and **Microphone** into the Player in advance and play a **NEO+G or MP3+G song from Disc or USB/SD.** ② After select a desired song on the all **NEO+G/MP3+G SONG LIST**, press **"RECORD"** key to start recording into **USB/SD**. ③ Your Singing Sound, Music and Graphic of **NEO+G/MP3+G Music** will be saved at "**RECORD**" folder in **USB/SD** at **MP3+G format.** ④ To stop recording, press "**STOP"** key. ⑤ After recording finished, enter the **"RECORD"** folder in USB/SD and can re-play the recorded **MP3+G files** from "RECORD" folder.
NEO+G Disc Ripping	You can rip **the NEO+G Disc** with **High speed (8X)** into USB/SD at **MP3+G format** including **Music and Graphics**. ① After connect a **USB/SD Card** with the Player in advance and insert a **NEO+G Disc** to the Player. ② Press **"SONG LIST"** key to display the all NEO+G SONG LIST. ③ After select a desired song **on the all NEO+G SONG LIST**, press **"RIPPING"** key ④ And then, if "**Do you want to copy it to USB or SD?**" displayed, select **"ONE or TOTAL"** to start Ripping or select **"CANCEL"** to cancel Ripping. In order to cancel during the ripping of the Disc, press "**ENTER**" Key. ⑤ The Ripped song will be saved at **"DISC TO MP3G"** folder in **USB/SD** at **MP3+G format.** ⑥ If want to rip more NEO+G songs, please repeat from step ② to ④. After Ripping finished, press "**USB/DISC"** key to enter the **USB/SD mode** and you can re-play the ripped files at **"DISC TO MP3G"** folder in USB/SD. 

NEO+G Karaoke Operation

CD+G Disc Ripping

You can **rip the CD+G Disc with High speed (4X)** into USB/SD at **MP3+G format** including **Music and Graphics.**

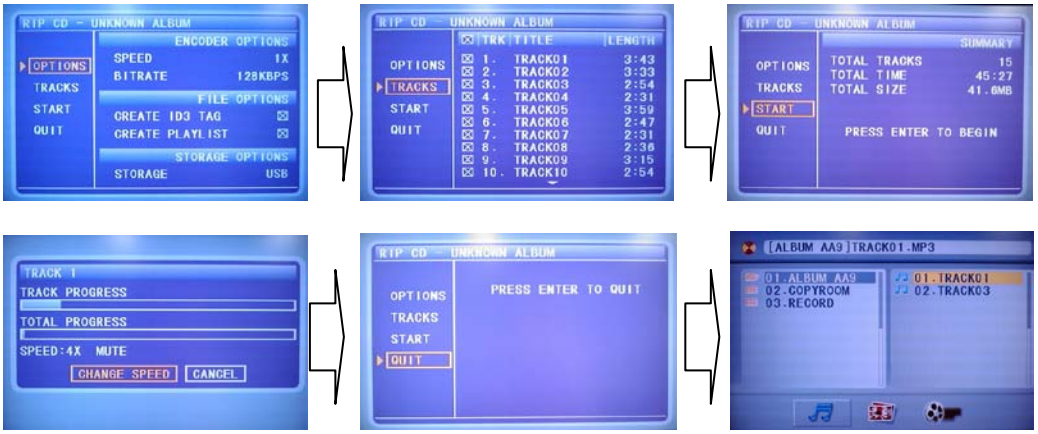
① After connect a **USB/SD Card** into the Player in advance, insert a **CD+G Disc** to the player.
② Press **"RIPPING"** key at stop or playback mode.
③ Set the ripping **OPTION** such as "SPEED(1X-4X)/ BITRATE/ ID3 TAG/ PLAYLIST".
④ Then select desired **TRACK** of the CD+G Disc.
⑤ Then, select **START** and press **ENTER** to begin Ripping.
⑥ During the Ripping, you can change the Ripping Speed between 1X and 4X.
⑦ When the Ripping done, select **QUIT** and press **ENTER** to Exit ripping mode.
⑧ The Ripped song will be saved at **"DISC TO MP3G"** folder in **USB/SD** at **MP3+G** format with following file name order automatically..

E.g) TRKAAA01
TRKAAA02
…..
TRKAAA10 etc.

***AAA:** It means the Disc ID and it will be changed according to each CD+G disc.
***Number(01, 02...etc):** It means the Track No. of each CD+G Disc.

⑨ After Ripping finished, press "**USB/DISC"** key to enter the **USB/SD mode** and you can re-play the ripped files from **"DISC TO MP3G"** folder in USB/SD.

⑩ If want to rip more CD+G Disc, please repeat from step ① to ⑦.



SONG LIST CREATING (MP3+G)

You can create the **SONG LIST of MP3+G Songs in DISC/USB/SD** into USB/SD at **TEXT(SONG LIST.txt) format** and you can make the SONG BOOK with it.

① Please insert MP3+G disc or connect a **USB/SD Card** contenting MP3+G files to the Player in advance.
② Press **"SONG LIST"** key to display the all MP3+G SONG LIST on the screen.
③ And then, press "**MENU**" key to create "**SONG LIST.txt**" file of all MP3+G files in Disc or USB/SD
④ The created **SONG LIST** file will be saved at **ROOT folder in USB or SD** at **"SONG LIST.txt"** format.

System Setup

System Setup

TV System	The TV setup is for switching to different TV system (NTSC, PAL60, PAL and AUTO). *If you don't know which TV system you have, just select AUTO.
SCREEN SAVER:	Turn the screen saver ON and OFF.
HDTV Output:	If the disc is HD, select the corresponding HD resolution(HD OFF/ 720P / 1080i / 1080P). If your TV is not a HDTV but with video type set on 720P or 1080P, the image will not be displayed well. In this case, Turn off the player to reset the setup to the regular TV image (HD OFF).
VIDEO:	Select a Video Output according to your equipment setup.
TV Type:	For a normal TV, select 4:3PS(Pan and Scan) or 4:3(Letter Box). For a wide-screen TV, select 16:9.
PASSWORD:	Input 4 numbers to setup your own password. When you set up a password, the player may ask you to enter password if you want to change some system settings. Please save your password safely because once your password has been set, We will not able to retrieve it. *Default password: **0000**
RATING:	When changing the setting, you need to enter your password. Rating level is base on the information of the discs. ➢ **1 KID SAFE:** It will play all discs. ➢ **2 G:** General Audience; recommended as acceptable for viewers of all ages. ➢ **3 PG:** Parental Guidance suggested. ➢ **4 PG13:** Material is unsuitable for children under age 13. ➢ **5-6 PG-R:** Parental Guidance - Restricted; recommended that parents restrict children under 17 from viewing or allow to view only when supervised by a parent or adult guardian. ➢ **7 NC-17:** No children under age 17; not recommended viewing for children under age 17. ➢ **8 ADULT:** Mature material; should be viewed only by adults due to graphic sexual material, violence or language.
DEFAULT:	Change back to factory setting.
RESUME:	Turn the resume ON and OFF

Language Setup

OSD LANGUAGE:	You can select a language of the screen. Factory Default OSD is ENGLISH.
AUDIO LANG:	You can select a language of the audio.
SUBTITLE LANG:	You can select a language of the subtitle.
MENU LANG:	You can select a language of the menu.

Audio Setup

AUDIO OUT:	Select an Audio Output according to your audio connection. To cancel COAXIAL or OPTICAL connection, use SPDIF/OFF. ➢ **SPDIF/OFF**: Analog audio output through the jacks on back panel (FL, FR, RL, RR, Center, Sub-Woofer). ➢ **SPDIF/RAW**: Through the Coaxial/Optical jack to output Dolby 5.1CH digital or DTS digital audio. ➢ **SPDIF/PCM**: Through the Coaxial/Optical jack to output PCM digital audio.
SCORE:	In order to get the Score Output after singing with Microphone, please set to **"AUTO"** If no need to get the Score, please set to **"OFF".**
KEY:	Change the key of music, same function as the key controls on the remote control. (-6, -4, -2, 0, 2, 4, 6)
ECHO:	Change the Echo Level of Microphone Sound Output(OFF/2/4/6/8).
MIC VOL:	Change the Microphone Sound Volume(OFF/2/4/6/8).

System Setup

Video Setup

BRIGHTNESS:	Set the brightness of the video from range 0-12.
CONTRAST:	Set the contrast of the video from range 0-12
HUE:	Set the hue of the video. +color to increase red color, -color to increase green color.
SATURATION:	Set the degree of the saturation of the video.

Speaker Setup

DOWNMIX:	Switch the audio output from LT/RT Mono, STEREO, VSS and 5.1CH mode. In LT/RT Mono Mode, two sound tracks will be mixed and the difference between these two tracks will be enhanced. In VSS mode, two sound tracks will be mixed and the difference between these two tracks will be decrease.
SUB WOOFER:	You can turn ON the sub woofer in 5.1CH mode.
CENTER DELAY:	You can adjust the center speaker delay upto 0-5MS according to the position of your center speaker.
REAR DELAY:	You can adjust the rear speaker delay upto 0-15MS according to the position of your rear speaker.
FONT:	Change the font to LARGE or SMALL.

Digital Setup

OP MODE:	To set the Dolby digital output, you can switch between Line Out(encode signal) and RF REMOD(raw signal)
DYNAMIC RANGE:	To set the scale of dynamic range in Dolby digital logic sound effect.
DUAL MONO:	**In Dolby sound effect, to set the Dual Mono modes from STEREO, MONO L, MONO R and MIX MONO.** ➢ **STEREO:** The proper channels output through both right and left speakers. ➢ **MONO L**: the left side channel output through both right and left speakers ➢ **MONO R:** the right side channel output through both right and left speakers. ➢ **MIX-MONO:** the mixed two channel output through both right and left speakers.

Trouble Shooting

	Symptom	Remedy
COMMON	No power	Insert the AC power plug securely into the power outlet and press “Power” button on the front panel.
	Play fails to start even when PLAY is pressed. Play starts but then stops immediately	Condensation has formed: wait about 1 to 2 hours to allow the player to dry out. This player cannot play discs other than DVDs, VCD and CDs The disc may be dirty and may require cleaning. Ensure that the disc is installed with the label side up.
	No Picture	Ensure that the equipment is connected properly. Ensure that the input setting for the TV is “Video”
	No sound Distorted sound	Ensure that the equipment is connected properly. Ensure that the input setting for the TV and stereo system are correct.
	Picture is distorted during fast forward or fast reverse.	The picture will be somewhat distorted at times: this is normal.
	Picture freezes momentarily during playback	Check the disc for fingerprints/scratches and clean with a soft cloth wiping from centre to edge.
	No fast forward or reverse play.	Some discs may have section which prohibit fast forward or fast reverse.
	No 4:3(16:9) picture	Choose the correct setup “TV” item which matches the TV set used.
	No operations can be performed with the remote control.	Check the batteries are installed with the correct polarities (+and-). The batteries are depleted: replace them with new ones. Point the remote control unit at the remote control sensor and operate. Operate the remote control unit at a distance of not more than 7 meters(23feet) from the remote control sensor. Remove the obstacles between the remote control unit and remote control sensor.
	No key operation (by the unit and/or the remote control) is effective.	Set the POWER button to OFF and then back to ON. Alternatively, turn off the power, disconnect the power plug and then re-connect it.
	On-Screen Menu Icons not displayed or only partially displayed on the TV Screen.	Select the appropriate TV Screen type by consulting the operating manual for the TV.
	The main unit is not working. The DVD player is not working normally.	While “NO DISC” message appears on the display of main unit, enter the SETUP mode and select DEFAULT and all settings will return to the default values. Press POWER button.
DVD	Play does not start even when title is selected.	Confirm the ‘RATING” setting.
	Audio soundtrack and/or subtitle language is not the one selected at the initial settings.	If the audio soundtrack and/or subtitle language does not exist on the disc, the language selected at the initial settings will not be seen/heard.
	No subtitles	Subtitles appear only with discs which contain them. Subtitles are cleared from the TV monitor. Perform the steps to display the subtitles.
	Alternative audio soundtrack (or subtitle) languages fail to be selected.	An alternative language is not selected with discs which do not contain more than one language. In the case of some discs, the alternative language cannot be selected by operating the AUDIO or SUBTITLE button. Try selecting it from the DVD menu if one is available.
	Angle cannot be changed.	This function is dependent on software availability. Even if a disc has a number of angles recorded, these angles may be recorded for specific scenes only
OTHERS	No menu play	This function works only for VCD with playback control (PBC).
	Unable to play MPEG4 movies	Check that the MPEG4 file is encoded in Home Theater mode with DivX 5.x encoder.
	Microphone does not work.	Check if the microphone is switched ON. Check if the Microphone volume of the Player and or Amplifier is fixed at the minimum level and adjust it. Check if the microphone is detective. If so, exchange it.
	When using the microphone, the speaker makes a noise.	Keep the microphone far from the speaker. Do not place it toward the speaker either.
	Scoring has no function	Connect the MIC to the Player correctly and check the Score Setting at Setup. Please sing each song with enough voice output level for over 1 minute.
	Unable to recognize USB/SD CARD device	Pull out USB/SD CARD and re-connect to the player. Check if the USB cable is plugged in correctly. Check the USB HDD whether have the auxiliary Power input. If not, you must connect the auxiliary power cord to them for proper operation.

Specification

Supported Format	· **Supported Media:** DVD, VCD, SVCD, MPEG4, DivX, Xvid, HDCD, Audio CD, DVD±R/RW, CD±R/RW, MP3, WMA, OGG and JPEG. · **Video Format:** NEO+G, MP3+G, CD+G, MPEG1(*.dat, *.mpg), MPEG2(*.vob), MPEG4, DivX, XviD(*.avi), JPG · **Audio Format:** PCM, Dolby Digital AC3, DTS, MP3, WMA and OGG · **Subtitle Format:** .smi, .srt, .sub, .txt
System	· **TV System**: PAL/NTSC/Multi System · Frequency response: ✓ DVD(PCM 96kHz): 4Hz-44kHz ✓ DVD(PCM 48kHz): 4Hz-22kHz ✓ CD/VCD(44.1kHz): 4Hz-20kHz
Video Output	· Compotiste, S-Video, Component(Y, Pb, Pr), S-Cart, VGA Output · Progressive Scan up to 720P, 1080i, 1080P · Support PAL & NTSC Disc
Audio Output	· Analog 2CH Output: AUDIO L, AUDIO R(2Channel) · Analog 5.1CH output: F/L, F/R, C, S/W, R/L, R/R · Digital 5.1CH output: Optical, Coaxial · S-Cart output
Input	· Microphone Input: 2EA · USB Host: 1EA, 2.0 Full Speed, compatible with **2TB HDD (FAT32).** · Card reader: 1EA, support SD, MMC, MS up to **32GB(SDHC)**
Others	· .Power source : AC 100-240V~ 50/60Hz(Free Volt) · .Power consumption : <15W · .Operating temperature : +5° ~+38°(41°F to 95°F) · .Operating Humidity: 10% ~ 75%